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# GRADING SIMPLIFIED

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A Manual to Aid Teachers  
in Making Out Reports  
and Averaging  
Grades



By . . . . . LUCIE T. WEBB



# GRADING SIMPLIFIED

## A Teacher's Aid in Making Out Reports and Averaging Grades

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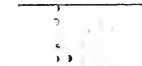


BY

LUCIE THOMAS WEBB  
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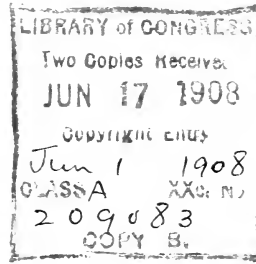
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## INTRODUCTION.

For many years, especially since the increased interest in education, teachers have felt the need of some means of simplifying and lessening the work of grading. The end of each month or term is looked forward to with dread, for it means hours of hard work grading examination papers, averaging grades, etc. Consequently, numbers of schools have discarded the old, and only correct system of grading, that of percentage, and adopted others too general in meaning to stimulate interest and competition on the part of the pupil. Why should a pupil give his closest attention to the "little things," which would mean a deserving grade of ninety-nine or one hundred, when he knows his report will only credit him with *excellent*, *a*, or *one*, which may mean anywhere from *ninety-five* up? The solution of the problem lies in this,—retain the old percentage method but lessen the work by means of charts and tables that will give the averages without that tedious adding, dividing, etc., which a tired teacher dreads so much.

This little manual proposes to do this. It cannot do *all* of the work, nor does it claim to do it, but if properly used, will be invaluable to any teacher in the saving of time, and mental exertion.

To Prof. R. J. Tighe, superintendent of the Asheville

City Schools; Prof. John Harris, Lenoir Graded Schools; Prof. J. T. Jones, principal Lenoir High School; and especially Prof. Anderson Weaver, of Davenport College, the author wishes to extend her sincerest gratitude for their interest and encouragement in the preparation of this little book. They have examined it carefully, tested its merits, and endorsed its use.





## GRADING SIMPLIFIED.

In many ways grading is a difficult task. Just how much a pupil has missed of a lesson, or how little he knows about that lesson must be left to the discretion of the teacher, and often she is mistaken in both. Valuing work too high should be carefully guarded against, for a pupil soon loses interest in a grading that he knows is not true, even if it is in his favor; and resentment and trouble are certain to follow if the mark is below what he deserves. The author has tried the plan of making each pupil take a brief note of his failures when on recitation, and at the close state what he has failed on, and grade himself,—she correcting it when necessary. This way the teacher needs only to take notice of those who have missed during the recitation, counting the remainder of the class as perfect.

The purpose of this little book is that of finding the average daily grade, and combining it with the examination grade and thus securing the final average. The Tables from *one* to *twelve* will help to do the former, while Charts I. and II. will give the latter. If the pupil is graded every day during the school month, we use Table VII. of which the dividing factor is twenty; if graded three times per week, making twelve times each month, we use Table III., of which the dividing factor is twelve, and so on.

### THE DAILY GRADE.

The first seven Tables are for finding the average daily grade of any one subject, when the pupil has been



graded daily on the basis of one to ten, counting ten as perfect. Suppose a child's grade on Arithmetic stands thus: 9, 8, 5, 7, 9, 9, 6, 9, and ten each day the remaining days of the month of twenty days; he made then 182 points, divided by twenty gives an average grade of 9.1 or 91 per cent. on Arithmetic. Again, he failed to make 18 of the 200 points he might have made; since the first day he lost one, the second day two, third day five and so on, in all eighteen points. In Table VII. select from the factors at the top and left side, the factors of eighteen (one above and one to left) three and six or two and nine, and where these columns cross will be found the grade desired. If the number which represents the lost points cannot be factored, find from the table the grade of the factored number *just above* the desired number and to that grade *add* the *correction* given at the bottom of the table,—once if the difference between the factored and desired number is one, twice if two, etc.

*Example:* Find the grade obtained from the loss of thirteen points. In Table VII. 14 points = 93, correction  $\frac{1}{2}$ , for 13 points, then the grade will be  $93\frac{1}{2}$ .

#### EXAMINATION PAPERS.

The tables on a basis of ten as perfect may also be used to advantage in grading examination papers, using the table of which the dividing factor is the same as the number of questions given on the examination. The method is similar to the above. Value each question at ten, regardless of the number of questions, make a note of the points lost on each one. and find the factors of their sum, then the table will give the desired grade.

## AVERAGE GRADE OF SUBJECTS TAUGHT.

After the daily grade on each subject is obtained, the tables from eight to twelve on a basis of one hundred as perfect will give the average grade of these subjects, selecting the table which has a dividing factor equal to the number of subjects. Suppose a pupil makes the following grades in March: Arithmetic 98, Geography 96, Reading 90, Writing 97, History 95, English 94; then he has lost the following points in order: 2, 4, 10, 3, 5, 6 = 30 in all. The factors of 30 are 5 and 6, in Table IX. These factors give a grade of 95. Grades for numbers that cannot be factored may be obtained as before stated.

## COMBINING DAILY AND EXAMINATION GRADES.

The two charts in the back of the book are for obtaining the final average when the daily and examination grades are known. At the top of the chart find the given examination grade, look down the column until the given daily grade or the grade nearest to it is found, across to the left will be the average desired. These charts are made to give the averages in whole numbers. If the fraction is desired, add one-third to the average for every increase of one-half in the daily grade.

*Example:* Chart I.—An examination grade of 90 and daily grade of 96 gives an average of 94; a daily grade of  $96\frac{1}{2}$  and exam. of 90 gives an average of  $94\frac{1}{3}$ .

This method may be a little confusing at first, but when once understood and properly tested, the author feels sure no teacher will go back to the old way of con-

sidering what a pupil *makes* instead of what he *loses*. The latter deals with much smaller figures and consequently saves mental exertion and time. It will be an advantage for the teacher to have a grade book ruled with one column for each day the pupil is to be graded during the month. Note the points he lost each lesson, leaving a blank space when the recitation is perfect. For instance, if he makes eight on a lesson, credit him with two in the grade book; the sum of these numbers will be the points he has lost during the month. Then the grade may be found as stated.



The fractions in the following tables are expressed thus: 1-3, meaning one-third.

TABLE I.

*Dividing factor, eight.*

*Ten. perfect.*

	1	2	3	4	5	6	7	8	9	10
1	98 3-4	97 1-2	96 1-4	95	93 3-4	92 1-2	91 1-4	90	88 3-4	87 1-2
2	97 1-2	95	92 1-2	90	87 1-2	85	82 1-2	80	77 1-2	75
3	96 1-4	92 1-2	88 3-4	85	81 1-4	77 1-2	73 3-4	70	66 1-4	62 1-2
4	95	90	85	80	75	70	65	60	55	50
5	93 3-4	87 1-2	81 1-4	75	68 3-4	62 1-2	56 1-4	50	43 3-4	
6	92 1-2	85	77 1-2	70	62 1-2	55	47 1-2	40		
7	91 1-4	82 1-2	73 3-4	65	56 1-4	47 1-2	38 6-8			
8	90	80	70	60	50	40				
9	88 3-4	77 1-2	66 1-4	55	43 3-4					
10	87 1-2	75	62 1-2	50						

Correction, 1 1-4.

TABLE II.

*When the dividing factor is ten.**Ten, perfect.*

	1	2	3	4	5	6	7	8	9	10
1	99	98	97	96	95	94	93	92	91	90
2	98	96	94	92	90	88	86	84	82	80
3	97	94	91	88	85	82	79	76	73	70
4	96	92	88	84	80	76	72	68	64	60
5	95	90	85	80	75	70	65	60	55	50
6	94	88	82	76	70	64	58	52	46	40
7	93	86	79	72	65	58	51	44	37	30
8	92	84	76	68	60	52	44	36	28	20
9	91	82	73	64	55	46	37	28	19	10
10	90	80	70	60	50	40	30	20	10	0

Correction, *one*.

TABLE III.

*When the dividing factor is twelve.*

*Ten, perfect.*

	1	2	3	4	5	6	7	8	9	10
1	99 1-6	98 1-3	97 1-2	96 2-3	95 5-6	95	94 1-6	93 1-3	92 1-2	91 2-3
2	98 1-3	96 2-3	95	93 1-3	91 2-3	90	88 1-3	86 2-3	85	83 1-3
3	97 1-2	95	92 1-2	90	87 1-2	85	82 1-2	80	77 1-2	75
4	96 2-3	93 1-3	90	86 2-3	83 1-3	80	76 2-3	73 1-3	70	66 2-3
5	95 5-6	91 2-3	87 1-2	83 1-3	79 1-2	75	70 5-6	66 2-3	62 1-2	58 1-3
6	95	90	85	80	75	70	65	60	55	50
7	94 1-6	88 1-3	82 1-2	76 2-3	70 5-6	65	59 1-2	53 1-3	47 1-2	41 2-3
8	93 1-3	86 2-3	80	73 1-3	66 2-3	60	53 1-3	46 2-3	40	33 1-3
9	92 1-2	85	77 1-2	70	62 1-2	55	47 1-2	40	32 1-2	25
10	91 2-3	83 1-3	75	66 2-3	58 1-3	50	41 2-3	33 1-3	25	16 2-3

Correction 5-6.

TABLE IV.

*When the dividing factor is fifteen.*

*Ten, perfect.*

	1	2	3	4	5	6	7	8	9	10
1	99 1-3	98 2-3	98	97 1-3	96 2-3	96	95 1-3	94 2-3	94	93 1-3
2	98 2-3	97 1-3	96	94 2-3	93 1-3	92	90 2-3	89 1-3	88	86 2-3
3	98	96	94	92	90	88	86	84	82	80
4	97 1-3	94 2-3	92	89 1-3	86 2-3	84	81 1-3	78 2-3	76	73 1-3
5	96 2-3	93 1-3	90	86 2-3	83 1-3	80	76 2-3	73 1-3	70	66 2-3
6	96	92	88	84	80	76	72	68	64	60
7	95 1-3	90 2-3	86	81 1-3	76 2-3	72	67 1-3	63 2-3	58	53 1-3
8	94 2-3	89 1-3	84	78 2-3	73 1-3	68	63 2-3	57 1-3	52	46 2-3
9	94	88	82	76	70	64	58	52	46	40
10	93 1-3	86 2-3	80	73 1-3	66 2-3	60	53 1-3	46 2-3	40	33 1-3

Correction 2-3.

TABLE V.

*Dividing factor sixteen.**Ten, perfect.*

	1	2	3	4	5	6	7	8	9	10
1	99 3-8	98 3-4	98 1-8	97 1-2	96 7-8	96 1-4	95 5-8	95	94 3-8	93 3-4
2	98 3-4	97 1-2	96 1-4	95	93 3-4	92 1-2	91 1-4	90	88 3-4	87 1-2
3	98 1-8	96 1-4	88 3-4	92 1-2	90 5-8	88 3-4	86 7-8	85	83 1-8	81 1-4
4	97 1-2	95	92 1-2	90	87 1-2	85	82 1-2	80	77 1-2	75
5	96 7-8	93 3-4	90 5-8	87 1-2	84 3-8	81 1-4	78 1-8	75	71 7-8	68 6-8
6	96 1-4	92 1-2	88 3-4	85	81 1-4	77 1-2	73 3-4	70	66 1-4	62 1-2
7	95 5-8	91 1-4	86 7-8	82 1-2	78 1-8	73 3-4	69 3-8	65	60 5-8	56 1-4
8	95	90	85	80	75	70	65	60	55	50
9	94 3-8	88 3-4	83 1-8	77 1-2	71 7-8	66 1-4	60 5-8	55	49 3-8	43 3-4
10	93 3-4	97 1-2	81 1-4	75	68 3-4	62 1-2	56 1-4	50	43 3-4	37 1-2

Correction 5-8.



TABLE VI.

*Dividing factor eighteen.**Ten, perfect.*

	1	2	3	4	5	6	7	8	9	10
1	99 4-9	98 8-9	98 3-9	97 7-9	97 2-9	96 2-3	96 1-9	95 5-9	95	94 4-9
2	98 8-9	97 7-9	96 2-3	95 5-9	94 4-9	93 3-9	92 2-9	91 1-9	90	88 8-9
3	98 3-9	96 2-3	95	93 1-3	91 2-3	90	88 1-3	86 2-3	85	83 1-3
4	97 7-9	95 5-9	93 1-3	91 1-9	88 8-9	86 2-3	84 4-9	82 2-9	80	77 7-9
5	97 2-9	94 4-9	91 2-3	88 8-9	86 1-9	83 3-9	80 5-9	77 7-9	75	72 2-9
6	96 2-3	93 3-9	90	86 2-3	83 3-9	80	76 2-3	73 1-3	70	66 2-3
7	96 1-9	92 2-9	88 1-3	84 4-9	80 5-9	76 2-3	72 7-9	68 8-9	65	56 1-9
8	95 5-9	91 1-9	86 2-3	82 2-9	77 7-9	73 1-3	68 8-9	64 4-9	60	55 5-9
9	95	90	85	80	75	70	65	60	55	50
10	94 4-9	88 8-9	83 1-3	77 7-9	72 2-9	66 2-3	56 1-9	55 5-9	50	44 4-9

Correction 5-9.

TABLE VII.

*When the dividing factor is twenty.**Ten, perfect.*

	1	2	3	4	5	6	7	8	9	10
1	99 1-2	99	98 1-2	98	97 1-2	97	96 1-2	96	95 1-2	95
2	99	98	97	96	95	94	93	92	91	90
3	98 1-2	97	95 1-2	94	92 1-2	91	89 1-2	88	86 1-2	85
4	98	96	94	92	90	88	86	84	82	80
5	97 1-2	95	92 1-2	90	87 1-2	85	82 1-2	80	77 1-2	75
6	97	94	91	88	85	82	79	76	73	70
7	96 1-2	93	89 1-2	86	82 1-2	79	75 1-2	72	68 1-2	65
8	96	92	88	84	80	76	72	68	64	60
9	95 1-2	91	86 1-2	82	77 1-2	73	68 1-2	64	59 1-2	55
10	95	90	85	80	75	70	65	60	55	50

Correction 1-2.

The following tables are for finding the average *per cent.*

TABLE VIII.

*Dividing factor five.*

*One hundred, perfect.*

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	99 4-5	99 3-5	99 2-5	99 1-5	99	98 4-5	98 3-5	98 2-5	98 1-5	98	97 4-5	97 3-5	97 2-5
2	99 3-5	99 1-5	98 4-5	98 2-5	98	97 3-5	97 1-5	96 4-5	96 2-5	96	95 3-5	95 1-5	94 4-5
3	99 2-5	98 4-5	98 1-5	97 3-5	97	96 2-5	95 4-5	95 1-5	94 3-5	94	93 2-5	92 4-5	92 1-5
4	99 1-5	98 2-5	97 3-5	96 4-5	96	95 1-5	94 2-5	93 3-5	92 4-5	92	91 1-5	90 2-5	89 3-5
5	99	98	97	96	95	94	93	92	91	90	89	88	87
6	98 4-5	97 3-5	96 2-5	95 1-5	94	92 4-5	91 3-5	90 2-5	89 1-5	88	86 4-5	85 3-5	84 2-5
7	98 3-5	97 1-5	95 4-5	94 2-5	93	91 3-5	90 1-5	88 4-5	87 2-5	86	84 3-5	83 1-5	81 4-5
8	98 2-5	96 4-5	95 1-5	93 3-5	92	90 2-5	88 4-5	87 1-5	85 3-5	84	82 2-5	80 4-5	79 1-5
9	98 1-5	96 2-5	94 3-5	92 4-5	91	89 1-5	87 2-5	85 3-5	83 4-5	82	80 1-5	78 2-5	76 3-5
10	98	96	94	92	90	88	86	84	82	80	78	76	74
11	97 4-5	95 3-5	93 2-5	91 1-5	89	86 4-5	84 3-5	82 2-5	80 1-5	78	75 4-5	73 3-5	71 2-5
12	97 3-5	95 1-5	92 4-5	90 2-5	88	85 3-5	83 1-5	80 4-5	78 2-5	76	73 3-5	71 1-5	68 4-5
13	97 2-5	94 4-5	92 1-5	89 3-5	87	84 2-5	81 4-5	79 1-5	76 3-5	74	71 2-5	68 4-5	66 1-5

Correction 1-5.

TABLE IX.

*When the dividing factor is six.**One hundred, perfect.*

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	99 5-6	99 2-3	99 1-2	99 1-3	99 1-6	99	98 5-6	98 2-3	98 1-2	98 1-3	98 1-6	98	97 5-6
2	99 2-3	99 1-3	99	98 2-3	98 1-3	98	97 2-3	97 1-3	97	96 2-3	96 1-3	96	95 2-3
3	99 1-2	99	98 1-2	98	97 1-2	97	96 1-2	96	95 1-2	95	94 1-2	94	93 1-2
4	99 1-3	98 2-3	98	97 1-3	96 2-3	96	95 1-3	94 2-3	94	93 1-3	92 2-3	92	91 1-3
5	99 1-6	98 1-3	97 1-2	96 2-3	95 5-6	95	94 1-6	93 1-3	92 1-2	91 2-3	90 5-6	90	89 1-6
6	99	98	97	96	95	94	93	92	91	90	89	88	87
7	98 5-6	97 2-3	96 1-2	95 1-3	94 1-6	93	91 5-6	90 2-3	89 1-2	88 1-3	87 1-6	86	84 5-6
8	98 2-3	97 1-3	96	94 2-3	93 1-3	92	90 2-3	98 1-3	88	86 2-3	85 1-3	84	82 2-3
9	98 1-2	97	95 1-2	94	92 1-2	91	89 1-2	88	86 1-2	85	83 1-2	82	80 1-2
10	98 1-3	96 2-3	95	93 1-3	91 2-3	90	88 1-3	86 2-3	85	83 1-3	81 2-3	80	78 1-3
11	98 1-6	96 1-3	94 1-2	92 2-3	90 5-6	89	87 1-6	85 1-3	83 1-2	81 2-3	79 5-6	78	76 1-6
12	98	96	94	92	90	88	86	84	82	80	78	76	74
13	97 5-6	95 2-3	93 1-2	91 1-3	89 1-6	87	84 5-6	82 2-3	80 1-2	78 1-3	76 1-6	74	71 5-6

Correction 1-6.

TABLE X.

*Counting one hundred as perfect and seven as the dividing factor.*

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	99 6-7	99 5-7	99 4-7	99 3-7	99 2-7	99 1-7	99	98 6-7	98 5-7	98 4-7	98 3-7	98 2-7	98 1-7
2	99 5-7	99 3-7	99 1-7	98 6-7	98 4-7	98 2-7	98	97 5-7	97 3-7	97 1-7	96 6-7	96 4-7	96 2-7
3	99 4-7	99 1-7	98 5-7	98 2-7	97 6-7	97 3-7	97	96 4-7	96 1-7	95 5-7	95 2-7	94 6-7	94 3-7
4	99 3-7	98 6-7	98 2-7	97 5-7	97 1-7	96 4-7	96	95 3-7	94 6-7	94 2-7	93 5-7	93 1-7	92 4-7
5	99 2-7	98 4-7	97 6-7	97 1-7	96 3-7	95 5-7	95	94 2-7	93 4-7	92 6-7	92 1-7	91 3-7	90 5-7
6	99 1-7	98 2-7	97 3-7	96 4-7	95 5-7	94 6-7	94	93 1-7	92 2-7	91 3-7	90 4-7	89 5-7	88 6-7
7	99	98	97	96	95	94	93	92	91	90	89	88	87
8	98 6-7	97 5-7	96 4-7	95 3-7	94 2-7	93 1-7	92	90 6-7	89 5-7	88 4-7	87 3-7	86 2-7	85 1-7
9	98 5-7	97 3-7	96 1-7	94 6-7	93 4-7	92 2-7	91	89 5-7	88 3-7	87 1-7	85 6-7	84 4-7	83 2-7
10	98 4-7	97 1-7	95 5-7	94 2-7	92 6-7	91 3-7	90	88 4-7	87 1-7	85 5-7	84 2-7	82 6-7	81 3-7
11	98 3-7	96 6-7	95 2-7	93 5-7	92 1-7	90 4-7	89	87 3-4	85 6-7	84 2-7	82 5-7	81 1-7	79 4-7
12	98 2-7	96 4-7	94 6-7	93 1-7	91 3-7	89 5-7	88	86 2-7	84 4-7	82 6-7	81 1-7	79 3-7	77 5-7
13	98 1-7	96 2-7	94 3-7	92 4-7	90 5-7	88 6-7	87	85 1-7	83 2-7	81 3-7	79 4-7	77 5-7	75 6-7

Correction 1-7.

TABLE XI.

*Dividing factor eight.**One hundred, perfect.*

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	99 7-8	99 3-4	99 5-8	99 1-2	99 3-8	99 1-4	99 1-8	99	98 7-8	98 3-4	98 5-8	98 1-2	98 3-8
2	99 3-4	99 1-2	99 1-4	99	98 3-4	98 1-2	98 1-4	98	97 3-4	97 1-2	97 1-4	97	96 3-4
3	99 5-8	99 1-4	98 7-8	98 1-2	98 1-8	97 3-4	97 3-8	97	96 5-8	96 1-4	95 7-8	95 1-2	95 1-8
4	99 1-2	99	98 1-2	98	97 1-2	97	96 1-2	96	95 1-2	95	94 1-2	94	93 1-2
5	99 3-8	98 3-4	98 1-8	97 1-2	96 7-8	96 1-4	95 5-8	95	94 3-8	93 3-4	93 1-8	92 1-2	91 7-8
6	99 1-4	98 1-2	97 3-4	97	96 1-4	95 1-2	94 3-4	94	93 1-4	92 1-2	91 3-4	91	90 1-4
7	99 1-8	98 1-4	97 1-3	96 1-2	95 5-8	94 3-4	93 7-8	93	92 1-8	91 1-4	90 3-8	89 1-2	88 5-8
8	99	98	97	96	95	94	93	92	91	90	89	88	87
9	98 7-8	97 3-4	96 5-8	95 1-2	94 3-8	93 1-4	92 1-8	91	87 7-8	88 3-4	87 5-8	86 1-2	85 3-8
10	98 3-4	97 1-2	96 1-4	95	93 3-4	92 1-2	91 1-4	90	88 3-4	87 1-2	86 1-4	85	84 3-4
11	98 5-8	97 1-4	95 7-8	94 1-2	93 1-8	91 3-4	90 3-8	89	87 5-8	86 1-4	84 7-8	83 1-2	82 1-8
12	98 1-2	97	95 1-2	94	92 1-2	91	89 1-2	88	86 1-2	85	83 1-2	82	80 1-2
13	98 3-8	96 5-8	95 1-8	93 1-2	91 7-8	90 1-4	88 5-8	87	85 3-8	84 3-4	82 1-8	80 1-2	78 7-8

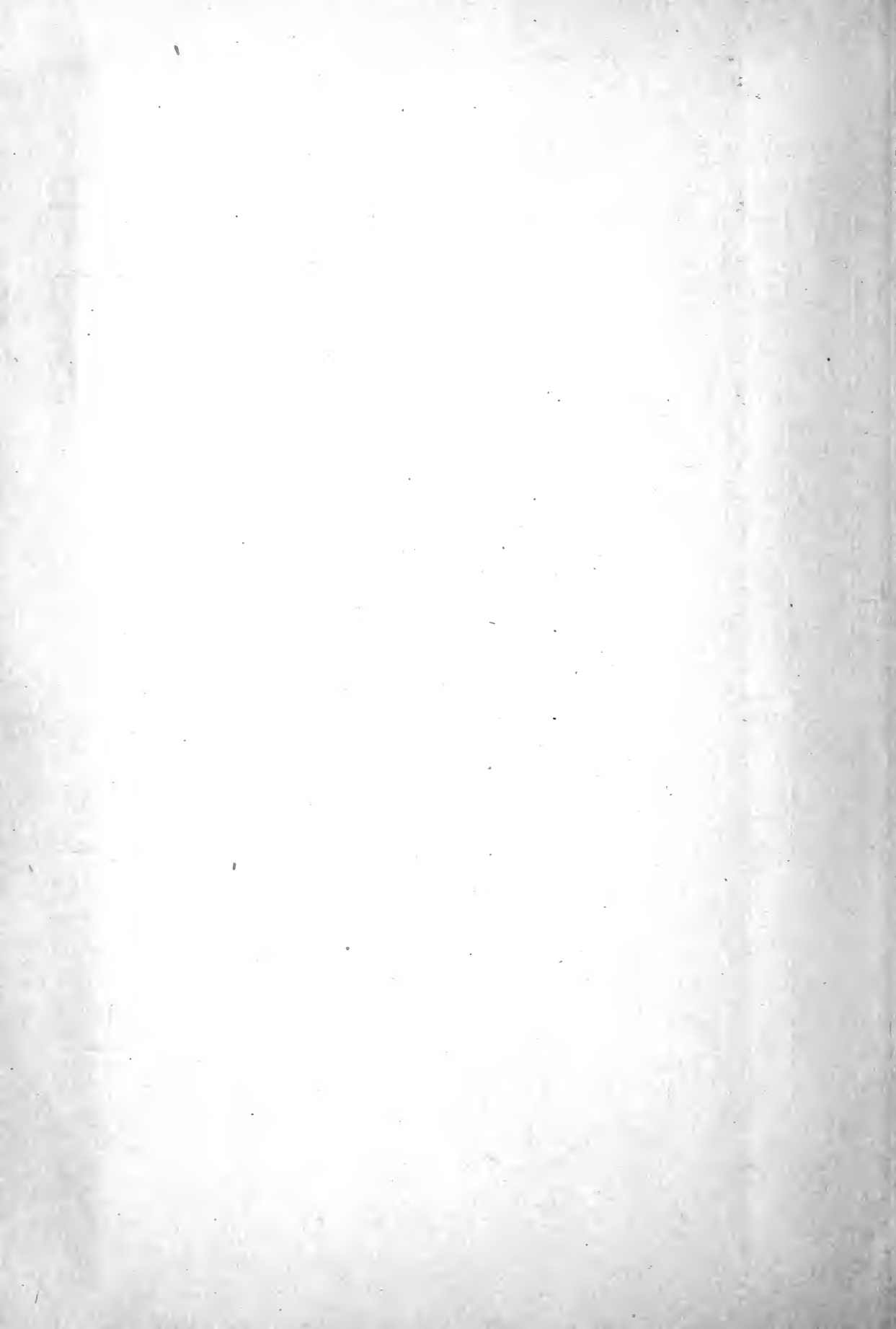
Correction 1-8.

TABLE XII.

*Dividing factor nine.**One hundred, perfect.*

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	99 8-9	99 7-9	99 2-3	99 5-9	99 4-9	99 3-9	99 2-9	99 1-9	99	98 8-9	98 7-9	98 6-9	98 5-9
2	97 7-9	99 5-9	99 3-9	99 1-9	98 8-9	98 2-3	98 4-9	98 2-9	98	97 7-9	97 5-9	97 3-9	97 1-9
3	99 2-3	99 1-3	99	98 2-3	98 1-3	98	97 2-3	97 1-3	97	96 2-3	96 1-3	96	95 2-3
4	99 5-9	99 1-9	98 2-3	98 2-9	97 7-9	97 1-3	96 8-9	96 4-9	96	95 5-9	95 1-9	94 2-3	94 2-9
5	99 4-9	98 8-9	98 1-3	97 7-9	97 2-9	96 2-3	96 1-9	95 5-9	95	94 4-9	94 8-9	94 1-3	93 7-9
6	99 1-3	98 2-3	98	97 1-3	96 2-3	96	95 1-3	94 2-3	94	93 1-3	92 2-3	92	91 3-9
7	99 2-9	98 4-9	97 2-3	96 8-9	96 1-9	95 1-3	94 5-9	93 7-9	93	92 2-9	91 4-9	90 2-3	89 8-9
8	99 1-9	98 2-9	97 1-3	96 4-9	95 5-9	94 2-3	93 7-9	92 8-9	92	91 1-9	90 2-9	89 1-3	88 4-9
9	99	98	97	96	95	94	93	92	91	90	89	88	87
10	98 8-9	97 7-9	96 2-3	95 5-9	94 4-8	93 1-3	92 2-9	91 1-9	90	88 8-9	87 7-9	86 2-3	85 5-9
11	98 7-9	97 5-9	96 3-9	95 1-9	93 8-9	92 2-3	91 4-9	90 2-9	89	87 7-9	86 5-9	85 1-3	84 1-9
12	98 2-3	97 1-3	96	94 2-3	94 1-3	92	90 2-3	89 1-3	88	86 2-3	85 1-3	84	82 2-3
13	98 5-9	97 1-9	95 2-3	94 2-9	93 7-9	91 1-3	89 8-9	88 4-9	87	85 5-9	84 1-9	82 2-3	81 2-9

Correction 1-9.





1	10	110	20	120	30	130	40	140	50
2	105	115	25	125	35	135	45	145	55
3	110	120	30	130	40	140	50	150	60
4	115	125	35	135	45	145	55	155	65
5	120	130	40	140	50	150	60	160	70
6	125	135	45	145	55	155	65	165	75
7	130	140	50	150	60	160	70	170	80
8	135	145	55	155	65	165	75	175	85
9	140	150	60	160	70	170	80	180	90
10	145	155	65	165	75	175	85	185	95
11	150	160	70	170	80	180	90	190	100
12	155	165	75	175	85	185	95	195	105
13	160	170	80	180	90	190	100	200	110
14	165	175	85	185	95	195	105	205	115
15	170	180	90	190	100	200	110	210	120
16	175	185	95	195	105	205	115	215	125
17	180	190	100	200	110	210	120	220	130
18	185	195	105	205	115	215	125	225	135
19	190	200	110	210	120	220	130	230	140
20	195	205	115	215	125	225	135	235	145
21	200	210	120	220	130	230	140	240	150
22	205	215	125	225	135	235	145	245	155
23	210	220	130	230	140	240	150	250	160
24	215	225	135	235	145	245	155	255	165
25	220	230	140	240	150	250	160	260	170
26	225	235	145	245	155	255	165	265	175
27	230	240	150	250	160	260	170	270	180
28	235	245	155	255	165	265	175	275	185
29	240	250	160	260	170	270	180	280	190
30	245	255	165	265	175	275	185	285	195
31	250	260	170	270	180	280	190	290	200
32	255	265	175	275	185	285	195	295	205
33	260	270	180	280	190	290	200	300	210
34	265	275	185	285	195	295	205	305	215
35	270	280	190	290	200	300	210	310	220
36	275	285	195	295	205	305	215	315	225
37	280	290	200	300	210	310	220	320	230
38	285	295	205	305	215	315	225	325	235
39	290	300	210	310	220	320	230	330	240
40	295	305	215	315	225	325	235	335	245
41	300	310	220	320	230	330	240	340	250
42	305	315	225	325	235	335	245	345	255
43	310	320	230	330	240	340	250	350	260
44	315	325	235	335	245	345	255	355	265
45	320	330	240	340	250	350	260	360	270
46	325	335	245	345	255	355	265	365	275
47	330	340	250	350	260	360	270	370	280
48	335	345	255	355	265	365	275	375	285
49	340	350	260	360	270	370	280	380	290
50	345	355	265	365	275	375	285	385	295
51	350	360	270	370	280	380	290	390	300
52	355	365	275	375	285	385	295	395	305
53	360	370	280	380	290	390	300	400	310
54	365	375	285	385	295	395	305	405	315
55	370	380	290	390	300	400	310	410	320
56	375	385	295	395	305	405	315	415	325
57	380	390	300	400	310	410	320	420	330
58	385	395	305	405	315	415	325	425	335
59	390	400	310	410	320	420	330	430	340
60	395	405	315	415	325	425	335	435	345
61	400	410	320	420	330	430	340	440	350
62	405	415	325	425	335	435	345	445	355
63	410	420	330	430	340	440	350	450	360
64	415	425	335	435	345	445	355	455	365
65	420	430	340	440	350	450	360	460	370
66	425	435	345	445	355	455	365	465	375
67	430	440	350	450	360	460	370	470	380
68	435	445	355	455	365	465	375	475	385
69	440	450	360	460	370	470	380	480	390
70	445	455	365	465	375	475	385	485	395
71	450	460	370	470	380	480	390	490	400
72	455	465	375	475	385	485	395	495	405
73	460	470	380	480	390	490	400	500	410
74	465	475	385	485	395	495	405	505	415
75	470	480	390	490	400	500	410	510	420
76	475	485	395	495	405	505	415	515	425
77	480	490	400	500	410	510	420	520	430
78	485	495	405	505	415	515	425	525	435
79	490	500	410	510	420	520	430	530	440
80	495	505	415	515	425	525	435	535	445
81	500	510	420	520	430	530	440	540	450
82	505	515	425	525	435	535	445	545	455
83	510	520	430	530	440	540	450	550	460
84	515	525	435	535	445	545	455	555	465
85	520	530	440	540	450	550	460	560	470
86	525	535	445	545	455	555	465	565	475
87	530	540	450	550	460	560	470	570	480
88	535	545	455	555	465	565	475	575	485
89	540	550	460	560	470	570	480	580	490
90	545	555	465	565	475	575	485	585	495
91	550	560	470	570	480	580	490	590	500
92	555	565	475	575	485	585	495	595	505
93	560	570	480	580	490	590	500	600	510
94	565	575	485	585	495	595	505	605	515
95	570	580	490	590	500	600	510	610	520
96	575	585	495	595	505	605	515	615	525
97	580	590	500	600	510	610	520	620	530
98	585	595	505	605	515	615	525	625	535
99	590	600	510	610	520	620	530	630	540
100	595	605	515	615	525	625	535	635	545

THE END OF THE WORLD



# CHART I.

This chart is for finding the average grade when the daily and examination grades are known, counting two-thirds for daily grade and one-third for examination.

## EXAMINATION GRADES.

AVERAGE GRADES.

	60	65	70	75	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
99																						100	99½	99	98½
98																		100	99½	99	98½	98	97½	97	
97			DAILY GRADES.													100	99½	99	98½	98	97½	97	96½	96	95½
96													100	99½	99	98½	98	97½	97	96½	96	95½	95	94½	94
95										100	99½	99	98½	98	97½	97	96½	96	95½	95	94½	94	93½	93	92½
94							100	99½	99	98½	98	97½	97	96½	96	95½	95	94½	94	93½	93	92½	92	91½	91
93					99½	99	98½	98	97½	97	96½	96	95½	95	94½	94	93½	93	92½	92	91½	91	90½	90	89½
92					98	97½	97	96½	96	95½	95	94½	94	93½	93	92½	92	91½	91	90½	90	89½	89	88½	88
91					96½	96	95½	95	94½	94	93½	93	92½	92	91½	91	90½	90	89½	89	88½	88	87½	87	86½
90				97½	95	94½	94	93½	93	92½	92	91½	91	90½	90	89½	89	88½	88	87½	87	86½	86	85½	85
89			98½	96	93½	93	92½	92	91½	91	90½	90	89½	89	88½	88	87½	87	86½	86	85½	85	84½	84	83½
88		99½	97	94½	92	91½	91	90½	90	89½	89	88½	88	87½	87	86½	86	85½	85	84½	84	83½	83	82½	82
87		98	95½	93	90½	90	89½	89	88½	88	87½	87	86½	86	85½	85	84½	84	83½	83	82½	82	81½	81	80½
86	99	96½	94	91½	89	88½	88	87½	87	86½	86	85½	85	84½	84	83½	83	82½	82	81½	81	80½	80	79½	79
85	97	95	92½	90	87½	87	86½	86	85½	85	84½	84	83½	83	82½	82	81½	81	80½	80	79½	79	78½	78	77½
84	96	93½	91	88½	86	85½	85	84½	84	83½	83	82½	82	81½	81	80½	80	79½	79	78½	78	77½	77	76½	76
83	94½	92	89½	87	84½	84	83½	83	82½	82	81½	81	80½	80	79½	79	78½	78	77½	77	76½	76	75½	75	74½
82	93	90½	88	85½	83	82½	82	81½	81	80½	80	79½	79	78½	78	77½	77	76½	76	75½	75	74½	74	73½	73
81	91½	89	86½	84	81½	81	80½	80	79½	79	78½	78	77½	77	76½	76	75½	75	74½	74	73½	73	72½	72	71½
80	90	87½	85	82½	80	79½	79	78½	78	77½	77	76½	76	75½	75	74½	74	73½	73	72½	72	71½	71	70½	70
79	88½	86	83½	81	78½	78	77½	77	76½	76	75½	75	74½	74	73½	73	72½	72	71½	71	70½	70	69½	69	68½
78	87	84½	82	79½	77	76½	76	75½	75	74½	74	73½	73	72½	72	71½	71	70½	70	69½	69	68½	68	67½	67
77	85½	83	80½	78	75½	75	74½	74	73½	73	72½	72	71½	71	70½	70	69½	69	68½	68	67½	67	66½	66	65½
76	84	81½	79	76½	74	73½	73	72½	72	71½	71	70½	70	69½	69	68½	68	67½	67	66½	66	65½	65	64½	64
75	82½	80	77½	75	72½	72	71½	71	70½	70	69½	69	68½	68	67½	67	66½	66	65½	65	64½	64	63½	63	62½
74	81	78½	76	73½	71	70½	70	69½	69	68½	68	67½	67	66½	66	65½	65	64½	64	63½	63	62½	62	61½	61
73	79½	77	74½	72	69½	69	68½	68	67½	67	66½	66	65½	65	64½	64	63½	63	62½	62	61½	61	60½	60	59½
72	78	75½	73	70½	68	67½	67	66½	66	65½	65	64½	64	63½	63	62½	62	61½	61	60½	60	59½	59	58½	58
71	76½	74	71½	68½	66½	66	65½	65	64½	64	63½	63	62½	62	61½	61	60½	60	59½	59	58½	58	57½	57	56½
70	75	72½	70	67	65	64½	64	63½	63	62½	62	61½	61	60½	60	59½	59	58½	58	57½	57	56½	56	55½	55

An increase of one-half in daily grade increases average one-third.

July 17 1900







# CHART II.

Counting one-half for examination and one-half for daily recitation

## EXAMINATION GRADES.

	60	65	70	75	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
99																							100	99	98
98																					100	99	98	97	96
97																			100	99	98	97	96	95	94
96																	100	99	98	97	96	95	94	93	92
95															100	99	98	97	96	95	94	93	92	91	90
94													100	99	98	97	96	95	94	93	92	91	90	89	88
93											100	99	98	97	96	95	94	93	92	91	90	89	88	87	86
92									100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84
91							100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82
90					100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80
89					98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78
88					96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76
87				99	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74
86				97	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72
85			100	95	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70
84			98	93	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68
83			96	91	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66
82		99	94	89	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64
81		97	92	87	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62
80	100	95	90	85	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
79	98	93	88	83	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58
78	96	91	86	81	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56
77	94	89	84	79	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54
76	92	87	82	77	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
75	90	85	80	75	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50
74	88	83	78	73	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48
73	86	81	76	71	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46
72	84	79	74	69	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44
71	82	77	72	67	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42
70	80	75	70	65	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40

An increase of *one* in the recitation grade increases the average *one-half*.







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